

INTERNATIONAL SEARCH REPORT

International Application No.
PCT/EP2004/050311

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04L12/56

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED
Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04L H04Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)
EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|-----------------------|
| X | WO 01/08426 A (ERICSSON TELEFON AB L M) 1 February 2001 (2001-02-01) abstract page 3, line 10 - page 4, line 30 page 6, line 3 - page 7, line 27 page 9, line 6 - page 10, line 8 | 1-16 |
| X | EP 1 261 176 A (PIONEER CORP) 27 November 2002 (2002-11-27) abstract paragraphs '0002!, '0006!, '0020!, '0021! paragraphs '0034! - '0039!, '0049! - '0057! paragraphs '0064!, '0067! - '0069! claims 1-4,7 figure 13 | 1-6, 14-16 |
| A | ----- -/- | 7-13 |

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- *O* document referring to an oral disclosure, use, exhibition or other means
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Date of the actual completion of the international search

28 June 2004

Date of mailing of the international search report

16/07/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| A | <p>"Digital cellular telecommunications system;Discontinuous Transmission (DTX) for Enhanced Full Rate (EFR) speech traffic channels (GSM 06.81)" EUROPEAN TELECOMMUNICATION STANDARD, XX, XX, November 1996 (1996-11), pages 1-15, XP002098616 page 9, line 23 - page 12, line 15 page 14, line 1 - line 13 -----</p> | 1-16 |

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/050311

| Patent document cited in search report | | Publication date | Patent family member(s) | Publication date |
|---|---|---------------------|----------------------------|---------------------|
| WO 0108426 | A | 01-02-2001 | AU 6192000 A | 13-02-2001 |
| | | | CA 2378619 A1 | 01-02-2001 |
| | | | CN 1137599 C | 04-02-2004 |
| | | | EP 1197115 A2 | 17-04-2002 |
| | | | WO 0108426 A2 | 01-02-2001 |
| EP 1261176 | A | 27-11-2002 | JP 2002344378 A | 29-11-2002 |
| | | | EP 1261176 A1 | 27-11-2002 |
| | | | US 2002172185 A1 | 21-11-2002 |